

Claims

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1. A frame structure for a rack for electrical equipment, the frame structure comprising a plurality of elongate members which are joined together at corners of the structure, the frame structure including a corner joint at which two horizontal frame members and one vertical frame member are joined together, the horizontal frame members and the vertical frame member including portions which are juxtaposed to one another and are secured together by a common fastener engaging the juxtaposed portions.

2. A frame structure according to claim 1, wherein at least one of the frame members is formed by bending from sheet metal.

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3. A frame structure according to claim 1 or 2, wherein each of the frame members is formed by bending from sheet metal.

4. A frame structure according to any preceding claim, in which a hole is provided in each of the three portions and the common fastener passes through the holes.

5. A frame structure according to any preceding claim, further including a second fastener which engages and secures together two of the three frame members.

6. A frame structure according to any preceding claim, in which a first one of the frame members is of hollow section

and a second one of the frame members passes through an opening in a wall of the first frame member.

7. A frame structure according to claim 6, in which the opening is defined by a substantially rectangular hole.

8. A frame structure according to claim 6 or 7, in which a third one of the frame members passes through an opening in a further wall of the first frame member.

9. A frame structure according to claim 8, in which the opening in the further wall is defined by a substantially rectangular hole.

10. A frame structure according to claim 8 or 9, in which the second frame member is of hollow section and the third frame member passes through an opening in a wall of the second frame member.

11. A frame structure according to claim 10, in which the opening in the wall of the second frame member is defined by cut-away portions of one or more walls of the second frame member.

12. A frame structure according to any one of claims 6 to 11, in which the first frame member is the vertical frame member.

13. A frame structure according to any preceding claim, in which at least two of the frame members include further portions which are juxtaposed to one another and extend in planes transverse to the planes of the first-mentioned juxtaposed portions, the further juxtaposed portions being

secured together by a further common fastener engaging the further juxtaposed portions.

14. A frame structure according to claim 13, in which the further juxtaposed portions extend substantially

5 horizontally.

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15. A frame structure according to any preceding claim, wherein the structure includes eight corner joints that are all substantially identical to each other.

16. A frame structure according to any preceding claim, wherein the frame structure is substantially cuboidal.

17. A frame structure for a rack for electrical equipment, the frame structure comprising a plurality of elongate members which are joined together at corners of the structure, the frame structure including a corner joint at 15 which two horizontal frame members and one vertical frame member are joined together, a first one of the frame members being of hollow section and a second one of the frame members passing through an opening in a wall of the first frame member.

20 18. A frame structure according to claim 17, wherein at least one of the frame members is formed from sheet metal bent into the desired shape.

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25 19. A frame structure according to claim 17 or 18, wherein each of the frame members is formed by bending from sheet metal.

20. A frame structure according to claim 17, 18 or 19, in which a third one of the frame members passes through an opening in a further wall of the first frame member.

Sub 017
21. A frame structure according to claim 20, in which the second frame member is of hollow section and the third frame member passes through an opening in a wall of the second frame member.

Sub 017
22. A rack for electrical equipment comprising a frame structure according to any preceding claim.

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23. A rack according to claim 22, in which the rack is an enclosure and includes one or more panels secured to the frame structure

24. A rack according to claim 23, in which said at least one panel is releasable.

Sub 017
15 25. A flat pack comprising a plurality of frame members for assembling on site into a rack according to any of claims 22 to 24.

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